

BRANITONOV, I.B., assistant

Preservation of the internal sphincter in transurethral
adenomectomy. Sbor. nauch. rab. Ser. gos. med. inst. 44:10-
98 '64.

Treatment of adenoma of the prostate gland. Ibid.:171-198

Hemostasis during and following adenomectomy. Ibid.:191-194
(1964: 10:9)

1. Iz Nikol'skiy khirurgicheskoy kliniki pirogovskogo
fakul'teta (nav. i prof. N.I. Golikov) Samaranskogo gosudar-
stvennogo instituta lekarskoy i stomatologicheskoy klinicheskoy bol'nitsy. Sbornik nauchnykh i klinicheskikh
rabot - 812'64, 1964.

KHARITONOV, I.B., assistant; LUGOVSEVA, G.P., vrach; LAPITSKAYA, Z.P., vrach

Vesicoureteral reflux. Sbor. nauch. rab. Sar. gos. med. inst. 44:
201-206 '64. (MIRA 18:7)

1. Iz fakul'tetskoy khirurgicheskoy kliniki pediatricheskogo
fakul'teta (zav. - prof. N.I. Golubev) Saratovskogo meditsinskogo
instituta (rektor - dotsent N.R. Ivanov) na baze Dorozhnoy klini-
cheskoy bol'nitsy Privolzhskoy zheleznoy dorogi (nachal'nik - R.F.
Mazarenko).

USSR/Human and Animal Physiology. Excretion

T-7

Abs Jour : Ref Zhur - Biol., No 14, 1958, No 65342

Author : Kharitonov I.F.

Inst : -

Title : Neuroreflex Regulation of the Motor Function of the Ureters.

Orig Pub : Eksperim. Khirurgiya, 1957, No 4, 48-53

Abstract : Injecting 1 ml of a 10% solution of Ag NO₃ into the ureter of a dog, stimulating a splanchnic nerve or a peripheral nerve at the level of the second lumbar vertebra, the stretching of the urinary bladder associated with overfilling it, stimulating the testicles and particularly the spermatic cord, distension of the pelvis with uring following ligation of a ureter, pulling on the mesentery, and irritation of the peritoneum, small and large intestine, and especially of the rectum-all inhibited the peristalsis and tonus of the ureter. When the in situ or isolated ureter was anesthetized with novocaine or dicaine, the response of the

Card : 1/1 ureter to all of these stimuli disappeared.

⁶¹
Chair of Normal Physiology & Surgical Clinic in A.V. Vishnevskiy
Kazan Med. Inst.

KHARITONOV, I.F., Doc Med Sci--(diss) "^{Neuro}~~Neuro~~ reflectory regulation of the motor function of the ureters." Kazan', 1958. 24 pp (Kazan' State Med Inst), 250 copies (Kl, 30-58, 131)

KHARITONOV, I.F., dotsent

Problems in pediatric surgery on children at the First All-
Russian Congress of Surgeons. Kaz.-med.zhur. 40 no.2:109-110
Mr-Apr '59. (MIRA 12:11)

(CHILDREN--SURGERY)

KHARITONOV, I.F., doktor med.nauk (Kazan'); RATNER, Yu.A., prof. (Kazan');
SHUBLIN, V.N., prof. (Kazan'); SHULUTKO, L.I., prof. (Kazan');
ROZENGARTEN, M.Yu. (Kazan')

Twenty-seventh All-Union Congress of Surgeons. Kaz.med.zhur. no.5:
96-99 S-O '60. (MIRA 13:11)
(SURGERY--CONGRESSES)

KHARITONOV, I.F., doktor med.nauk (Kazan')

Professor S.M. Alekseev; obituary. Kaz. med. zhur. no.6:95 N-D '60.
(ALEKSEEV, SERGEI MIKHAILOVICH, 1886-1960) (MIRA 13:12)

KHARITONOV, I.F.

Clinical aspects of disorders of the motor function of the
ureters. Kaz.med. zhur. no.1:36-39 Ja-F'61 (MIRA 16:11)

1. Fakul'tetskaya khirurgicheskaya klinika im. A.V. Vishnevskogo
(zav. - prof. S.M. Alekseyev [deceased]) Kazanskogo meditsinsko-
go instituta i Respublikanskaya klinicheskaya bol'nitsa (glav-
vrach Sh.V. Bikchurin).

+

KHARITONOV, I.F., doktor med.nauk

~~Diagnosis~~ of retroperitoneal hematomas in children following severe injuries. Kaz. med. zhur. no.5:42-46 S-O '61. (MIRA 15:3)

1. Kurs khirurgii detskogo vozrasta (zav. - doktor ~~med.nauk~~
I.F. Kharitonov) Kazanskogo meditsinskogo instituta na baze
Respublikanskoy klinicheskoy bol'nitsy (glavnyy vrach ..
Sh.V. Bikhurin [deceased]).

(RETROPERITONEAL SPACE ~~WOUNDS~~ AND INJURIES)
(HEMATOMA)

KOZYREVA, I.V. (Kazan'); KHARITONOV, I.P. (Kazan')

Professor Mikhail Moiseevich Shalagin; obituary. Kaz. med.
zhur. no.5:97-98 S-Q '61. (MIRA 15:3)
(SHALAGIN, MIKHAIL MOISEEVICH, 1903-1961)

KHARITONOV, I. F., doktor med. nauk

Role of the interoceptors of the ureters in their motor function.
Urologiia no.2:38-42 '62.† (MIRA 15:4)

1. Iz kafedry normal'noy fiziologii (zav. - prof. I. N. Volkova)
Kazanskogo meditsinskogo instituta.

(URETERS--INNERVATION)

KHARITONOV, I.F., prof.

Nephrolithiasis in childhood. Kaz.med. zhur. no.1:35-38
Ja-F*63. (MIRA 16:8)

1. Fakul'tetskaya khirurgicheskaya klinika imeni A.V.
Vishnevskogo (sav. - prof. I.F.Kharitonov) Kazanskogo
meditsinskogo instituta.
(CALCULI, URINARY)

KHARITONOV, I.F.

Problems of nervism in the scientific and practical activities
of the A.V.Vishnevskii Clinic of the Department of Surgery.
Nauch. trudy Kaz. gos. med. inst. 14:569-571 '64. (MIRA 18:9)

1. Kafedra fakul'tetskoy khirurgii (zav. -- prof. I.F.Kharitonov)
Kazanskogo meditsinskogo instituta.

KOZLOV, V.Sh., inzh.; SAMOLETOV, M.V., inzh.; KHARITONOV, I.G., inzh.;
KORSHUNOV, D.A., kand. tekhn. nauk

Standardization of open gantry cranes. Prom. stroi. 42 no.6:
20-23 '65. (MIRA 18:12)

1. Kiyevskiy gosudarstvennyy proyektnyy institut po obshchestroi-
tel'nomu i sanitarno-tekhnicheskomu projektirovaniyy promyshlennykh
predpriyatiy Gosstroya SSSR (for all except Korshunov). 2. Nauchno-
issledovatel'skiy institut stroitel'nykh konstruktsiy Gosstroya SSSR
(for Korshunov).

Handwritten: МАШИНЫ И ПРИБОРЫ
АВДЕYEV, B.A.; BALASHOV, B.F., kandidat tekhnicheskikh nauk, retsenzent;
KHARITONOV, I.I., inzhener, retsenzent; BORISOV, S.V., inzhener,
redaktor; MODEL', B.I., tekhnicheskij redaktor.

[Testing machines and instruments] Ispytatel'nye mashiny i pribory.
Moskva, Gos.nauchno-tekhn.isd-vo mashinostroit.lit-ry, 1957. 350 p.
(MLRA 10:4)

(Testing machines)

KHARITONOV, I.I.

Automatic inertia compensator in fatigue testing machines with
rotating fields of force. Zav.lab. 25 no.9:1137-1138 '59.
(MIRA 13:1)

1. Spetsial'noye konstruktorskoye byuro ispytatel'nykh mashin.
(Fatigue testing machines)

KHABITONOV, I.P., Cand Tech Sci -- (diss) "Design for the strength, rigidity, and stability of girders with rigid junction connections." Dnepropetrovsk, 1958, 14 pp (Min of Higher Education UkSSR. Dnepropetrovsk Order of Labor Red Banner Metallurgical Inst im I.V. Stalin) 110 copies (KL, 23-58, 10b)

- 88 -

AUTHORS: Mikhaylov, A.V., Doctor of Technical Sciences, and
Kharitonov, I.S., Engineer

SOV/98-59-1-2/14

TITLE: The Stalingrad Hydroelectric Power Plant (Stalingrads-
kaya gidroelektrostantsiya)

PERIODICAL: Gidrotekhnicheskoye stroitel'stvo, 1959, ²⁴Nr 1, pp 6-15
(USSR)

ABSTRACT: This is a very detailed description of the Stalingrad
Hydroelectric Power Plant, now in construction. The
general power output of the plant is fixed at 2,530 mega-
watts produced by 22 turbines of 115 megawatts each.
The volume of earth works amounts to 144,000,000 cu m,
the volume of concrete and reinforced concrete amounts
to 5,620,000 cu m; the volume of stone embankments and
fillings - to 1,500,000 cu m and the drainages and
filter - to 1,560,000 cu m. A total of 30,400 tons of
metallic piles will be used and 71,600 tons of metallic
structures will be erected. The earth-silted dam will
consist of three parts: two in the river valley (one -
between the left river bank and the sluices, 1,270 m

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The Stalingrad Hydroelectric Power Plant

SOV/98-59-1-2/14

long, the second - between the sluices and the water-spill dam, 860 m long); the third part, in the river bed, between the power plant and the right river bank. The total length of the spillway dam and the power plant will be 1,900 m. The capacity of the spillway dam is 31,000 cu m a second, increasing to 45,300 cu m a second during spring floods. A detailed description of the power plant and other parts is given. There are two photos, four lay-outs, four profiles, and one table.

Card 2/2

KHARITONOV, I.V.

Defects and the repair of table-type dial scales. Izv.tekh. no.2:90-91
Mr-Ap '56. (Scales (Weighing instruments)) (MLBA 9:7)

VOLOVNIK, Ya., inzh.; KHARITIONOV, K., inzh.

Assembling the main building of a thermal electric station of
precast reinforced concrete. Stroitel' no.5:3-5 My '61.

(MIRA 14:6)

(Precast concrete construction)

(Dzerzhinsk—Electric power plants)

MAYLER, Z.L., inzh.; KHARITONOV, K.F., inzh.

Complex transformer substations with precast reinforced
concrete block-type casings. Prom. energ. 18 no.12:39-43
D '63. (MIRA 17:1)

KHARITONOV, K. F.; MIKHAYLOV, G. S.; GROBIVKER, M. P.

Selenium rectifiers for continuous charging of storage batteries.
Energetik 10 no.8:16-17 Ag '62. (MIRA 15:10)

(Storage batteries)
(Electric current rectifiers)

SHANNIKOV, V.M.; KHARITONOV, K.P.; GORDIYENKO, S.L.

Experimental determination of pressures and temperature on
the surface of plastic goods during their manufacture. Plast.
massy no.3:36-38 '64. (MIRA 17:3)

KEARITONOV, I. F. Cand. Tech. Sci.

Dissertation: "Studying the Causes of Nonuniform Deformations of Rashelev Linen and Their Elimination." Moscow Textile Inst, 2 Jul 47.

SC: Vechernyaya Moskva, Jul, 1947 (Project #17836)

KHARITONOV, L.F., kandidat tekhnicheskikh nauk.

~~works of the author of the invention~~

Elimination of biased pull in raschel cloth. Leg.prom. 7 no.9:23-24 Ag '47.
(MIRA 6:11)

(Hosiery industry)

KNITTING MACHINES

MIKHAYLOV, Konstantin Dmitriyevich; KHARITONOV, Lev Fedorovich; GUSEVA, Antonina Aleksandrovna; DALIDOVICH, A.S., redaktor; MIL'CHENKO, I.S. redaktor; NADEZHDA, N.P., kandidat tekhnicheskikh nauk, retsenzent, [deceased]; IGNATOVA, L.P., kandidat tekhnicheskikh nauk, retsenzent; PLEMYANNIKOV, M.N., redaktor; NEKRASOVA, O.I., tekhnicheskii redaktor

[Knitting technology] Tekhnologiya trikotazha. Pod obshchei red. A.S. Dalidovicha, L.S. Mil'chenko i K.D. Mikhailova. Moskva, Gos. nauchno-tekhn. izd-vo M-va legkoi promyshl. SSSR, 1956.
825 p. (MLRA 10:5)

(Knitting machines)

KHARITONOV, L.F., kand.tekhn.nauk, dotsent

Basic interlacing determining the techniques of the tricot-warp
knitting system. Izv.vys.ucheb.zav.;tekh.leg.prom. no.4:118-
135 '61. (MIRA 14:10)

1. Moskovskiy tekstil'nyy institut. Rekomendovana kafedroy
tekhnologii trikotazhnogo proizvodstva.
(Knitting)

KHARITONOV, L. G.

Vliianie vysokikh skorostei na kharakter povrezhdeniia podshipnikov kacheniiia.
(Vestn. Mash., 1950, no. 11, p. 17-20)

Includes bibliography.

Influence of high speeds upon the type of damage of rolling contact bearings.

DLC: TM4.V4

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library
of Congress, 1953.

KAZANSKIY, V.I., prof. KHARITONOV, L.G.

Modern trends in the treatment of acute appendicitis [with summary
in English]. Khirurgiya 34 no.4:36-42 Ap '58 (MIRA 11:7)

1. Iz khirurgicheskoy kliniki (zav. - prof. V.I. Kazanskiy)
TSentral'nogo instituta usovershenstvovaniya vrachev (dir. V.P.
Lebedeva) na baze TSentral'noy klinicheskoy bol'nitsy Ministerstva
putey soobshcheniya (nachal'nik V.W. Zakharchenko).

(APPENDICITIS,

modern trends (Rus))

KHARITONOV, L.G.

Alloplasty of the thoracic section of the esophagus in experiment.
Khirurgiia 36 no.3:73-81 Mr '60. (MIRA 13:12)
(~~ESOPHAGUS~~-SURGERY)

KHARITONOV, L.G., aspirant

Alloplasty of the resected esophagus under clinical and experimental conditions; survey of foreign and Russian literature. Vest. khir. 86 no.2:103-111 '61. (MIRA 14:2)

1. Iz 4-y khirurgicheskoy klin'ki (zav. - prof. V.I. Kazar'skiy) Tsentral'nogo instituta usovershenstvovaniya vrachev na baze Tsentral'noy klinicheskoy bol'nitsy (nach. - zasluzh. vrach RSFSR V.N. Zakharchenko) Ministerstva putey soobshcheniya.
(ESOPHAGUS—SURGERY)

KHARITONOV, L.G.

Pathomorphological changes occurring in tissues around a polyethylene prosthesis applied to restore the continuous function of a resected esophagus. Eksp. khir. i anest. 6 no.5:55-56 S-O '61. (MIRA 15:3)

1. Iz 3-y kafedry khirurgii (zav. - prof. V.I. Kazanskiy) Tsentral'nogo instituta usovershenstvovaniya vrachey na baze Tsentral'noy klinicheskoy bol'nitsy (nachal'nik - zasluzhennyy vrach RSFSR V.N. Zakharov) Ministerstva putey soobshcheniya. (ESOPHAGUS—SURGERY)

KAZANSKIY, V.I., prof.; KHAEIFONOV, L.G.

Three operations for cardiac aneurysm. Khirurgiia no.1:35-38
'62. (MIRA 15:11)

1. Iz 3-y kafedry khirurgii (zav. - prof. V.I. Kazanskiy) Tsentral'nogo instituta usovershenstvovaniya vrachey na baze Tsentral'noy klinicheskoy bol'nitsy Ministerstva putey soobshcheniya (nach. - zasluzhennyy vrach RSFSR V.N. Zakharchenko).
(CARDIAC ANEURYSMS)

KHARITONOV, L.G. (Moskva Ye-401, Pionerskaya ul., d.13, kv.1); KAGAN, Ye.M.; BENENSON M.P.

Research on the functional characteristics of a prosthetic esophagus. Grud.khir. 4 no.6:80-83 N-D'62. (MIRA 16:10)

1. Iz 3-y kafedry khirurgii TSentral'nogo instituta usovershenstvovaniya vrachey (zav. - prof. V.I.Kazanskiy), rentgenodiagnosticheskogo otdela (zav. - prof. I.A.Shekhter) Gosudarstvennogo nauchno-issledovatel'skogo rentgenoradiologicheskogo instituta Ministerstva zdravookhraneniya RSFSR, rentgenologicheskogo otdeleniya TSentral'noy klinicheskoy bol'nitsy Ministerstva putey soobshcheniya (zav. - dotsent S.A. Sviridov)

(ESOPHAGUS---SURGERY) (PROSTHESIS)

KHARITONOV, L.G., kand. med. nauk

Restoration of esophageal patency in inoperable cancer by permanent intubation; a review of Soviet and foreign literature. Khirurgiia (MIRA 17:11) 39 no.11:135-140 N '63.

1. Iz 3-y kafedry khirurgii (zav. - prof. V.I. Kazanskiy) TSentral'nogo instituta usovershenstvovaniya vrachey na baze TSentral'noy klinicheskoy bol'nitsy (nachal'nik - заслуженный врач РСФСР V.N. Zakharchenko) Ministerstva putey soobshcheniya.

KHARITONOV, L.G.

Permanent intubation of the esophagus in inoperable cancer patients.
Trudy TSIU 62:212-219 '63. (MIRA 18:3)

1. III kafedra khirurgii (zav. prof. V.I.Kazanskiy) TSentral'nogo
instituta usovershenstvovaniya vrachey.

KHARITONOV, L.G., kand. med. nauk (Moskva, Ye-20, pionerskaya ulitsa, d. 13, kv.1).

Use of plastic esophageal prostheses. Vest. khir. 90 no.5:3-8
My'63 (MIRA 17:5)

1. Iz 34kafedry khirurgii (zav. - prof. V.I. Suzanskiy) Tsentral'nogo instituta usovershenstvovaniya vrachey na baze Tsentral'noy klinicheskoy bol'nitsy (nachal'nik - zasluzhennyy vrach RSFSR V.N. Zakharchenko) Ministerstva putey sobsbchaniya.

KHARITONOV, L.G. (Moskva Ye-402, Pionerskaya ul., d.13, kv.1); BENENSON, M.P.
(Moskva); MAKAROVA, K.A. (Moskva)

Combination of a leiomyoma and cancer of the esophagus. Grud. khir.
6 no.4:106-107 J1-Ag '64. (MIRA 18.4

KHARITONOV, L.G., kand. med. nauk; BOGDANOV, A.V.

Cancer of the esophagus and cardia in pulmonary tuberculosis.
Sov. med. 27 no.8:62-65 Ag '64. (MIRA 18:3)

1. 3-ya kafedra khirurgii (zav.- prof. V.I. Kazanskiy) TSentral'-
nogo instituta usovershenstvovaniya vrachey na baze TSentral'noy
klinicheskoy bol'nitsy (nachal'nik V.N. Zakharchenko) Ministerstva
putey soobshcheniya, Moskva.

KAZANSKIY, V.I., prof.; BOGDANOV, A.V.; KHARITONOV, L.G., kand. med. nauk; RASTRIGIN, N.N., kand. med. nauk

Causes of fatal outcome following radical operations for cancer of the upper section of the stomach involving the esophagus. Khirurgiia 40 no.2:93-98 F '64. (MIRA 17:7)

1. 3-ya kafedra khirurgii (zav. -- prof. V.I. Kazanskiy)
TSentral'nogo instituta usovershenstvovaniya vrachey na baze
TSentral'noy klinicheskoy bol'nitsy Ministerstva putey soobshcheniya, Moskva.

LIMONCHIK, S.I., kand. med. nauk; PHILIPCHEN, L.D., kand. med. nauk;
BOGDANOV, A.V.

Valvulotubular gastrectomy in the surgery of cancer of the
stomach and esophagus. Khirurgiya 40 no.8:124-126 Ag '84.

(NIIA 18:3)

1. III kafedra Khirurgii (zav. - prof. V.I. Karanshly) Tsentral'-
nogo instituta usovershenstvovaniya vrachev na baze Tsentral'noy
klinicheskoy bol'nitsy (nachal'nik - zadachanny vrach KIRSK
V.N. Iakharchenko) Ministerstva putey soobshcheniya i kuznetskaya
bol'nitsa No.2 (glavny vrach I.I. Popov) vedzdravotdora, Mosva.

Summary treatment of participants. *Therapist* = 10
Subject = 10 (1964)

[illegible]

RASSTRIGIN, N.N.; KHARITONOV, L.G.; BOGDANOV, A.V.

Complications in esophagoscopy under anesthesia and their diagnosis and treatment, *Khirurgiya* 40 no.9:78-82 3 '64. (MIRA 18:2)

1. Iz-ya kafedra khirurgii (rav. - prof. V.I. Kuznetsov) Tsentrального Instituta usoveshchaniya vrachey na baze Tsentrальной klinicheskoy bol'nitsy (nachal'nik - zasluzhennyy vrach RSFSR V.N. Zakharovskiy) Ministertva puty soobshcheniya, Moskva.

KHARITONOV, L.G., kand. med. nauk; BOGDANOV, A.T.

Lesion of the thoracic duct during surgery on the esophagus.
Khirurgiya 40 no.9:84-86 S 161. (MIA 18:2)

1. Tret'ya kafedra khirurgii (rav. - prof. V.I. Kuznetsov)
TSentral'nogo Instituta usovusheniya kachestva zhizni na baze
TSentral'nogo klinicheskoy bol'nitsy (Leningradsk - St. Lichernyy
vrach RSFSR V.B. Zakharovskiy) Khirurgiya gortani i shchekhnogo
Mozga.

KAZANSKIY, V.I., prof. (Moskva, Leningradskiy prospekt 87, kv.1);
KHARITONOV, L.G., kand. med. nauk; RASSTRIGIN, N.N., kand.
med. nauk; BOGDANOV, A.V.

Prevention and treatment of complications following radical
operations in cancer of the central thoracic section of the
esophagus. Vest. khir. 92 no.4:9-13 Ap '64

(MIRA 18:1)

1. Iz 3-y kafedry khirurgii (zav. - prof. V.I.Kazanskiy)
TSentral'nogo instituta usovershenstvovaniya vrachev na
base TSentral'noy klinicheskoy bol'nitsy (nachal'nik - za-
sluzhennyy vrach RSFSR V.K. Zacharenko) Ministerstva putey
soobshcheniya.

BOGDANOV, A.V.; KRAYTSEY, L.I.; KHARITONOV, L.G.

Cancer of the upper region of the stomach with transition into the esophagus in patients over 60 years of age. Khirurgiia 41 no.4:52-56 Ap '65. (MIRA 18:5)

1. 3-ya kafedra khirurgii (zav. - prof. V.I. Kazanskiy) TSentral'nogo instituta usovershenstvovaniya vrachey na baze TSentral'noy klinicheskoy bol'nitsy Ministerstva putey soobshcheniya, Moskva.

KAZANSKIY, V.I.; BOGDANOV, A.V.; KHARITONOV, I.G.

Selection of the esophageal anastomosis in radical operations
for cancer of the upper portion of the stomach invading the
esophagus. Vop. onk. 11 no.7:18-23 '65. (MIRA 18:9)

1. Iz 3-ey kafedry khirurgii (zav.- prof. V.I. Kazanskiy)
TSentral'nogo instituta usovershenstvovaniya vrachey na baze
TSentral'noy klinicheskoy bol'nitsy Ministerstva putey
soobshcheniya (nachal'nik - zasluzhennyy vrach RSFSR V.N.
Zakharchenko).

KHARITONOV, L.G., dotsent, kandidat tekhnicheskikh nauk [reviewer]; KOSHKIN, K.T.;
EFREMOV, V.V. [authors].

"Repair requirements in the construction of automobiles." K.T.Koshkin, V.V.
Efremov. Reviewed by L.G.Kharitonov. Vest.mash. 33 no.11:105-106 N '53.
(MLBA 6:12)
(Automobiles--Repairing)

KHARITONOV, L.G.

Nomogram for determining microhardness in the PMT-3 testing machine. Zav.lab. 25 no.10:1249-1250 '59. (MIRA 13:1)

1. Novosibirskiy institut inzhenerov vodnogo transporta.
(Hardness)

18.8200 1327 1413

31743
S/148/61/000/010/003/003
E193/E383

AUTHOR: Kharitonov, I. G.

TITLE: Non-destructive determination of the ultimate tensile strength and elongation of low-carbon steel

PERIODICAL: Izvestiya vyssikh uchebnykh zavedeniy, Chernaya metallurgiya, no. 10, 1961, 170 - 176

TEXT: The main disadvantage of the standard methods of determining the mechanical properties of metals by means of a tensile test is the necessity of using a test piece. Hence, need arises to develop other, non-destructive, methods of determining these properties and one possible solution of this problem is based on the fact that strength and elongation are related to hardness of metals. Thus, N. N. Davidenkov et al (Ref. 1 - Zavodskaya laboratoriya, no. 10, 1945) have correlated the hardness number obtained with the aid of a conical indenter (cone angle of 90°) with UTS, true tensile strength and elongation and have proposed the following formula for calculating UTS (σ_B):

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Non-destructive determination

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S/148/61/000/010/003/003
E193/E383

$$\sigma_B = a_1 H_{90} - b_1 \quad \text{kg/mm}^2 \quad (1)$$

where $H_{90} = 4P/\pi d^2$ is the hardness number determined with a conical indenter with a cone angle of 90°
P is the test load, kg
d is the impression diameter, mm, and

a_1 and b_1 are the coefficients determined experimentally.

This and other formulae, however, can have only limited application (for example, for determining UTS of a given type of steel) since, very often, metals with different UTS have identical hardness. Prompted by this consideration, Zaytsev and Smolich (Ref. 5 - Zavodskaya laboratoriya, no. 11, 1950) proposed to relate hardness to both UTS (σ_B) and elongation (δ_p) and derived the formula:

$$P = ad^2 \sigma_B^n \delta_p^{-2} \quad (2)$$

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E193/E383

Non-destructive determination

where P is the test load applied to a conical indenter with a cone angle of 2β (kg),
 a is a dimensional plasticity coefficient (kg/mm^2), proportional to the yield strength (for metals forming a neck intention),
 n is a dimensionless plasticity coefficient, proportional to uniform elongation and
 d is the impression diameter (mm).

By applying formula (2) to results of two hardness tests carried out with indenters characterized by different β , UTS and δ can be determined. The object of the present

investigation was to develop further the method of determining UTS and δ of low-carbon steels by hardness tests conducted with the aid of a portable hardness tester. Since the method was intended for testing soft, untreated steel components of large constructions, hardened-steel conical indenters were used. Relatively low test loads (150 - 250 kg) were employed to keep the size of the portable tester within convenient limits. The hardness number, H , was calculated from the formula:

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$$H = \frac{4P}{\pi d^2}, \text{ kg/mm}^2 \quad (3), \quad \chi$$

where P is the test load (kg) and
d the impression diameter (mm).

Two methods were used to determine UTS and δ_p . The first method was based on using impressions made by two or more indenters with different cone angles. Several impressions were made with each indenter and from these the average hardness H was calculated. The plasticity parameters of the metal were found from the equation:

$$H = C \cos^{n-2} \beta \quad (4)$$

obtained from Eqs. (2) and (3), where $C = 4a/\pi$ is a parameter proportional to UTS and β is the cone half-angle. The parameters C and n in Eq. (4) were then found by the method of least squares, starting from a logarithmic transposition of

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Non-destructive determination S/148/61/000/010/003/003
E193/E583

Eq. (4) in the form:

$$\lg H = (n - 2)\lg \cos \beta + \lg C \quad (5)$$

General formulae were derived which, for the case when two different indenters only are used, have the form of:

$$n - 2 = \frac{\lg H_1 - \lg H_2}{\lg \cos \beta_1 - \lg \cos \beta_2} \quad (8)$$

$$\lg C = \frac{\lg \cos \beta_1 \lg H_2 - \lg \cos \beta_2 \lg H_1}{\lg \cos \beta_1 - \lg \cos \beta_2} \quad (9)$$

where indices 1 and 2 relate to the number of the indenter.
As has been shown by experiment, UTS and δ_p of low-carbon
(less than 0.30% C) steels can be calculated from:

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Non-destructive determination ³¹⁷⁴³
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$$\sigma_B = a_c C + b_c \quad (10)$$

and

$$\delta_p = a_n (n - 2) + b_n \quad (11) ,$$

where $a_c = 0.2$, $b_c = 7.6$, $a_n = 0.22$ and $b_n = 0.24$.

In the second method (which can be used only if the thermal and mechanical history of the steel is known) the UTS was determined from the impression made by a conical indenter with a cone angle of 90° . The hardness number, H_{90} , was determined from Eq. (5) and UTS (σ_B) from the formula:

$$\sigma_B = a_{90} H_{90} + b_{90} \quad (12) ,$$

where $a_{90} = 0.21$ and $b_{90} = 8.0$. The applicability of both

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Non-destructive determination ³¹⁷⁴³
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E193/E383

methods was checked on various steels, including: ~~CT3~~ (St.3);
3TC (3TS); 4T; St.10, St.20 and St.25. In the first place,
the validity of Eq. (4) was checked. The results obtained with
conical indenters made of hardened steel Y 12A (U12A),
tempered to 60 - 64 R_C, indicated that in the range of cone
angles (80 - 45°) and steels studied, the experimental
relationship between hardness number H and the cone angle β
followed fairly accurately Eq. (4) and this relationship for
some of these steels is described by the following formulae:

$$\text{St.3} \quad .. \quad H = 154.6 \cos^{0.29} \beta ;$$

$$3\text{TS} \quad .. \quad H = 170.5 \cos^{0.248} \beta ;$$

$$4\text{T} \quad .. \quad H = 179.3 \cos^{0.286} \beta .$$

The minimum and maximum deviations from the experiments were
0.5 - 0.6 and 0.8 - 1.6%, respectively. The accuracy of the
measurements was not affected by the variation of the test load

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Non-destructive determination E193/E383

X
in the 187.5 - 750 kg range. The results of the next series of tests in which UTS and elongation determined by tensile tests were compared with those obtained from hardness numbers are given in Table 2. A portable hardness-tester, weighing 5.5 kg, designed specially for the purpose of non-destructive determination of UTS and δ is illustrated schematically in Fig. 2. It consists of a lower housing (1) in an annular recess of which an electromagnet coil (2), mounted on a copper frame, is accommodated. The central bore of housing (1) accommodates the indenter (4), mounted at the top of a piston (3), supported by a spring (5). The upward movement of this piston is limited by a ring (6), screwed-on to its bottom end. The housing (1) is screwed tightly into a cylinder (7), which is provided with a pressure gauge (8). The top piston (9), operated by a flywheel (10), through a threaded coupling rod (11) and a steel ball (12), transmits the pressure to the bottom piston through a layer of pure mineral oil placed in the cylinder when the instrument is first assembled.

I.T. Goroshchenko assisted in the design of this apparatus.

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E193/E385

On switching-on the current (AC or DC) the instrument becomes firmly attached to the steel component being tested; when the surface is uneven, soft steel spacers can be used. A description of a portable measuring microscope is also given. It is stated in conclusion that the conventional method of determining UTS and δ can be replaced by the non-destructive method described in the present paper only after a certain transition period during which both methods would have to be used side-by-side. The purpose of this transition period would be to establish the accuracy of the new method when applied under industrial conditions, to introduce necessary modifications and to improve the design of the testing equipment. There are 3 figures, 2 tables and 11 references:
9 Soviet-bloc and 2 non-Soviet-bloc.

ASSOCIATION: Novosibirskiy institut inzhenerov vodnogo transporta (Novosibirsk Institute of Water-transport Engineers)

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PHASE I BOOK EXPLOITATION

SOV/1192

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Geology of the USSR (Cont.)

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Fedynskiy, V.V., Shatskiy, N.S., Shcherbakov, S.A., Shlygin, Ye.D., Yanshin, A.L., Yarmolyuk, V.A., Ed. of Publishing House: Godovikova, L.A.; Tech. Ed.: Gurova, O.A.

PURPOSE: This standard text on the geology of the USSR is intended for scientists and students of geology.

COVERAGE: The present volume, one of a series on the geology of the USSR, is devoted to a description of the Murmansk Oblast, an area rich in mineral resources and of great economic importance to the USSR. Bounded on the west by Norway and Finland, in the south by the Karelian SSR, and in the north and east by the Barents and the White seas, it encompasses the Kola Peninsula, and constitutes a part of the extensive Baltic Shield. Its crystalline base is mainly Archean, with the entire region, except the coastal strip and the high mountain tundra, consisting of Quaternary deposits, often of great thickness. The present work was prepared by a group of scientists under the direction of L.Ya. Kharitonov, assisted by A.P. Rotay in editing the section on stratigraphy and N.A. Volotovskaya in editing certain of the articles. There are 50 maps, including 1 large supplementary map in color, and 650 references of which approximately 550 are Soviet, 34 German, 12 English, 5 Norwegian, 5 Swedish, 5 Finnish, and 5 French.

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